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## (54) REDUCING DEHALOGENATION PROCESS

## (57)Abstract:

PURPOSE: To obtain a fluorocyclopropane compound, especially a 1,2-cis-2-fluorocyclopropanecarboxylic acid derivative by reducing a 1-halogeno-2-fluoro-1-cyclopropane-carboxylic acid derivative.

CONSTITUTION: The fluorodichloropropanes of formula III can be produced by reducing a 1-halogeno-2-fluoro-1-cyclopropanecarboxylic acid derivative of formula I (X is Cl, Br or I; COOR<sup>1</sup> is ester group) with a compound of formula II [M is alkali or alkaline earth metal; R<sup>2</sup> is H, cyano, acyloxy or alkoxy; (m) is 1-4; (n) is 0-3; m+n is 4]. The reaction is preferably carried out in the presence of dimethyl sulfoxide, sulfolane, etc. The compound of formula III is useful as a production raw material for pharmaceuticals and agricultural chemicals. The cis-compound is preferentially produced by this process independent of the steric configuration of the starting raw material. The objective product is easily produced in high yield.



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